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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/622,955	07/18/2003	Justin K. Brask	ITL.1021US (P16708)	3990	
7590 01/14/2005			EXAMINER		
Timothy N. Tr		CRANE, SARA W			
TROP, PRUNER & HU, P.C. STE 100			ART UNIT	PAPER NUMBER	
8554 KATY FV	• =	2811			
HOUSTON, T	X 77024-1841		DATE MAILED: 01/14/2005	DATE MAILED: 01/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/622,955	BRASK ET AL.			
		Examiner	Art Unit			
		Sara W. Crane	2811			
The MAILING DATE Period for Reply	of this communication app	ears on the cover sheet with the	correspondence address			
THE MAILING DATE OF T - Extensions of time may be available after SIX (6) MONTHS from the ma - If the period for reply specified abov - If NO period for reply is specified ab - Failure to reply within the set or exte	HIS COMMUNICATION. under the provisions of 37 CFR 1.13 ling date of this communication. e is less than thirty (30) days, a reply ove, the maximum statutory period w ended period for reply will, by statute, or than three months after the mailing	IS SET TO EXPIRE 3 MONTH (6(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) da fill apply and will expire SIX (6) MONTHS fror cause the application to become ABANDON date of this communication, even if timely file	imely filed bys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1) Responsive to comm	unication(s) filed on 18 Oc	ctober 0204.				
2a) This action is FINAL	·					
3) Since this application						
Disposition of Claims		·				
4a) Of the above clair 5)⊠ Claim(s) <u>7-11</u> is/are a 6)⊠ Claim(s) <u>1-5 and 17-</u> 7)⊠ Claim(s) <u>6</u> is/are obje	Claim(s) 1-11, 17-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 7-11 is/are allowed. Claim(s) 1-5 and 17-27 is/are rejected. Claim(s) 6 is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Application Papers		•				
9) ☐ The specification is o	ojected to by the Examine	r.				
10) The drawing(s) filed of	n is/are: a)□ acce	epted or b) \square objected to by the	Examiner.			
Applicant may not requ	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 11	•					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)		_				
 Notice of References Cited (PT) Notice of Draftsperson's Patent 		4) 🔲 Interview Summai Paper No(s)/Mail I				
	Drawing Review (PTO-948) nt(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 17 and 23, what is a "metal germinate"? Is this the same as a metal germanate?

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Claims 1, 4, and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Brask et al., 6,696,327.

The applied reference has a common inventor with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

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With respect to claims 1, 4, and 5, capping layer 115, in figure 1b of the reference, comprises silicon which may cause a silicide to form at all surface sites (column 3, lines 4-5). Hafnium-silicon bonds are given as an example (lines 6-8), and hafnium is a metal. Silicate is formed by oxidation (column 3, lines 47-48), using for example hydrogen peroxide (column 4, lines 1-2). Figure 1d shows selective removal of the oxidized layer 125.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being obvious over Brask et al., 6,696,327.

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by: (1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). For applications filed on or after November 29, 1999, this rejection might also be overcome by showing that the subject matter of the

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reference and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person. See MPEP § 706.02(I)(1) and § 706.02(I)(2).

Column 4, lines 28-30, of the reference states that "conventional techniques" are used for the etching shown in figure 1d. Wet etching at room temperature would have been obvious because this is a well-known conventional technique, probably the oldest technique used to etch device layers.

Allowable Subject Matter

Claim 6 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 7-11 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Crane, whose telephone number is (571) 272-1652.

The supervisor for Art Unit 2811, Eddie Lee can be reached on (571) 272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Sara W. Crane
Primary Examiner
Art Unit 2811